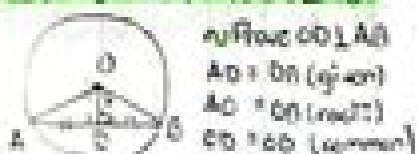


EUCLIDEAN GEOMETRY

① LINE FROM CENTRE TO MIDPT OF CHORD

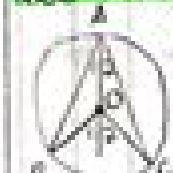
IF $AD = DB$ THEN $OD \perp AB$



~ Prove $OD \perp AB$
 $AD = DB$ (given)
 $AO = OB$ (radii)
 $OD = OD$ (common)
 $\therefore \triangle AOD \cong \triangle BOD$ (SSS)
 $\hat{O}_1 = \hat{O}_2$
 $\hat{O}_1 + \hat{O}_2 = 180^\circ$ (supp $\angle$'s) (Line from centre to chord)
 $\hat{O}_1 = \hat{O}_2 = 90^\circ \therefore OD \perp AB$ (midpt of chord)

③ $\angle$ AT CENTRE = $2 \times \angle$ AT CIRCLE

$\hat{AOC} = 2\hat{ABC}$



~ Prove $\hat{AOC} = 2\hat{ABC}$
 In $\triangle OCA$:
 $OA = OC$ (radii)
 $\hat{A}_1 = \hat{C}_1$ (base $\angle$'s)
 $\hat{O}_1 = \hat{A}_1 + \hat{C}_1$ (ext $\angle$ on OC)
 $\hat{O}_1 = 2\hat{A}_1$
 $\hat{O}_1 = 2\hat{A}_1$
 $\hat{O}_1 = 2\hat{A}_1$
 $\hat{O}_1 = 2\hat{A}_1$
 $\therefore \hat{AOC} = 2\hat{ABC}$ ($\angle$ at centre = $2 \times \angle$ at circle)

THEOREMS

② LINE FROM CENTRE $\perp$ TO CHORD

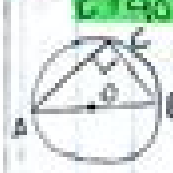
IF $OD \perp AB$ THEN $AD = DB$



~ Prove $AD = DB$
 $OA = OB$ (radii)
 $OD = OD$ (common)
 $\hat{O}_1 = \hat{O}_2 = 90^\circ$ (given)
 $\therefore \triangle AOD \cong \triangle BOD$ (RHS)
 $\hat{O}_1 = \hat{O}_2$
 $\hat{A}_1 = \hat{B}_1$
 $AD = DB$
 $\therefore AD = DB$ (Line from centre $\perp$ to chord)

④ $\angle$ IN A SEMI CIRCLE = DIAMETERS!

$\hat{C} = 90^\circ$



~ Prove $\hat{C} = 90^\circ$
 $\hat{AOB} = 180^\circ$ (Linear pair)
 $\hat{C} = \frac{1}{2}\hat{AOB}$ ($\angle$ at centre = $2 \times \angle$ at circle)
 $= \frac{1}{2}(180^\circ)$
 $= 90^\circ$
 $\therefore \hat{C} = 90^\circ$ ($\angle$ in a semi circle)

⑤ $\angle$ 'S IN SAME SEG

$\hat{A} = \hat{B}$



~ Prove $\hat{A} = \hat{B}$
 $\hat{A} = \frac{1}{2}\hat{O}$ ($\angle$ at centre = $2 \times \angle$ at circle)
 $\hat{B} = \frac{1}{2}\hat{O}$ ($\angle$ at centre = $2 \times \angle$ at circle)
 $\hat{A} = \hat{B}$ (both = $\frac{1}{2}\hat{O}$)
 $\therefore \hat{A} = \hat{B}$ ($\angle$'s in same seg ABC)

⑥ EQUAL CHORDS EQUAL $\angle$ 'S

$\hat{E} = \hat{F}$



~ Prove $\hat{E} = \hat{F}$
 $AC = BD$ (given)
 $\therefore \hat{E} = \hat{F}$ (equal chords equal $\angle$'s)

Euclidean geometry Grade 11 and 12

Yijin Wang



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